# NORTHERN LIGHTS LIGHTWEIGHT, STRONG STEEL INFRASTRUCTURE













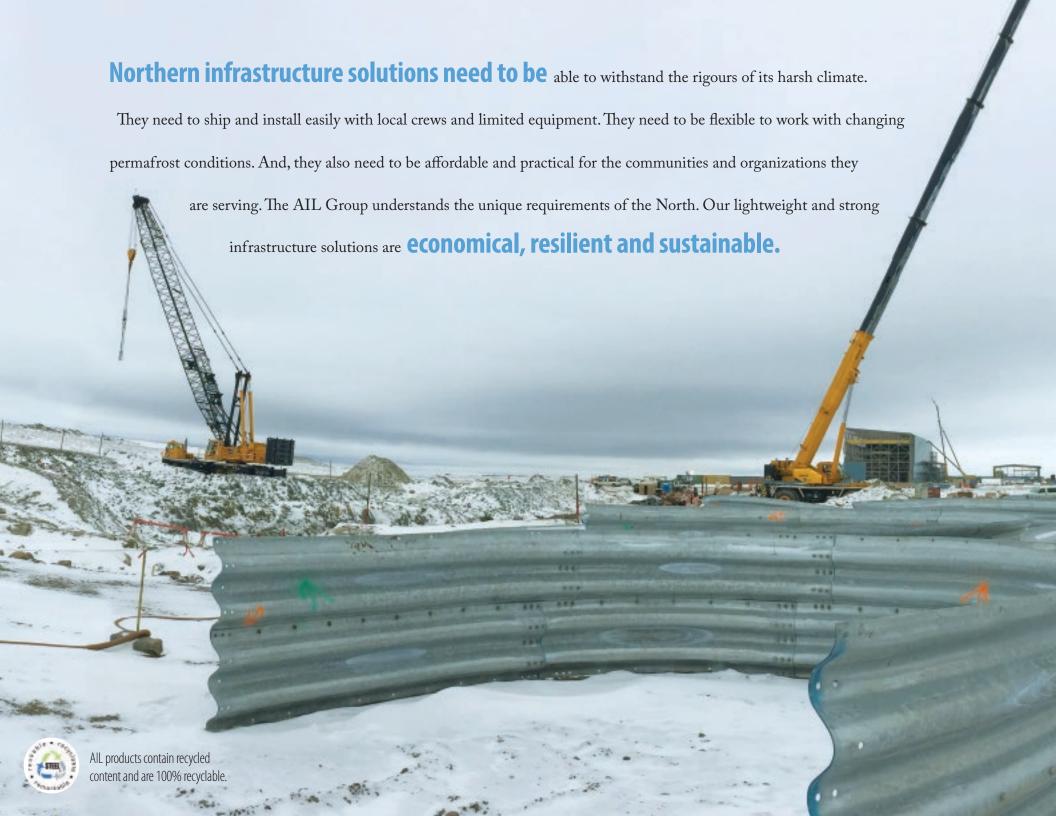
**Structural Plate Bridges & Crossings** 

Geotextile Reinforced Soil (GRS) Bridges

**Modular Panel Steel Bridges** 

Prefabricated Steel Bridges

**Retaining Walls & Abutments** 









#### YOUR CANADIAN AIL GROUP PARTNERS









#### Our Structural Plate Crossings and Culverts are the perfect solutions for the North.

By design, their components nest together for economical shipping by land or sea. They can be assembled by local construction crews with limited (or no) need for poured concrete. And, they create flexible and resilient structures able to handle higher settlement ranges and seismic events. These buried structures also have no road surface joints to maintain.

All told, our Structural Plate Crossings and Culverts are ideal for remote Northern locations.



# We have Structural Plate solutions for all manner of engineered structures. We manufacture a complete

range of Plate products for every need and budget, with span capabilities ranging from 1.5 m (5') to 35 m (115').

And, with over 50 years of experience in engineered Structural Plate, The AIL Group is renowned for its product innovation and on-site support. Plus, we can package your solution with efficient headwalls, crash barriers and more. In short, we're your one stop for **everything from the smallest culvert to huge river crossings.** 



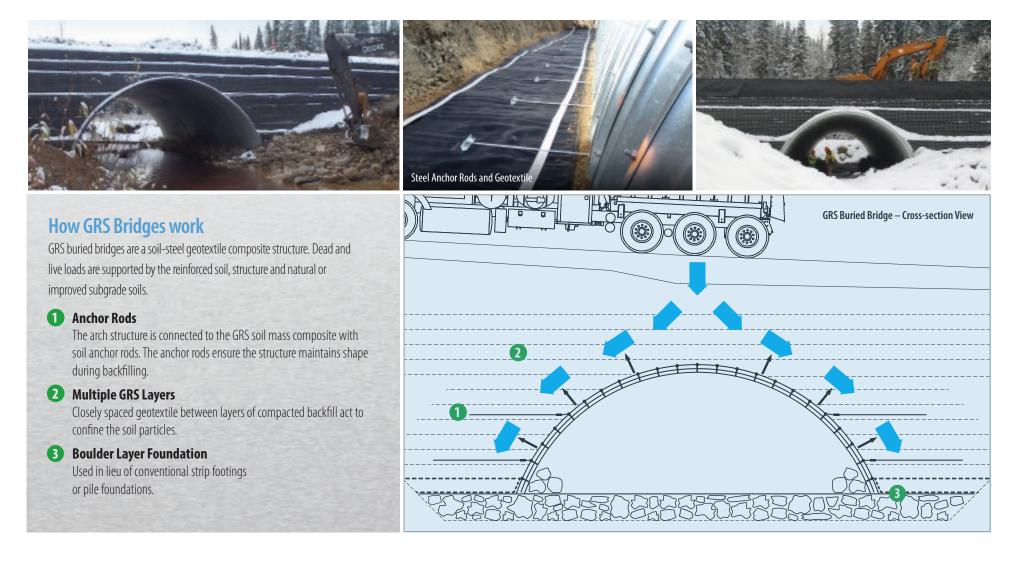
# Our Buried Bridges and Culverts are versatile engineered solutions that can be tailored to your site requirements. Our in-house Engineering Teams work closely with project partners to develop solutions that will easily accommodate their budgets, timelines and site anomalies. This may mean collaborating on geotechnical analyses, unique footing types, local backfill materials, specialized coatings or efficient options in headwall treatments. Whatever the case, we will work with you to develop custom solutions that are able to go with the flow.



#### All Geotextile Reinforced Soil (GRS) Bridges are patented buried bridge systems developed for the

forestry, resource and transportation sectors. GRS Buried Bridges are usually constructed using local materials and equipment.

These fish and wildlife friendly solutions require no concrete footings or pile foundations, they are scour and piping resistant and they are very quick to install. Dead and live loads are supported by the surrounding GRS compacted soil mass – multiple layers of geotextile and steel anchor rods – so you could say the bridges definitely **put the dirt to work.** 



## Algonquin Modular Panel Bridges are robust 'quick-build' systems that are shipped on trailers or in cargo containers

for site assembly by local teams. All components are hot dip-galvanized for maximum durability. Assembled bridges can be cantilever-launched from one side or they can be crane lifted into place. We offer two versions of these systems for a full-range of applications, including heavy industrial. With a ready-to-ship inventory, our AIL Group affiliate, Algonquin Bridge, is your go-to partner for these adaptable **and reusable bridge systems for sale or rent.** 

#### **Features and Benefits**

- ► Modern versions of classic "Bailey Bridge"
- Quick ship and install
- ► Permanent or temporary application
- ► Excellent detour bridge solution
- ► Short-term or long-term rental options
- ► Able to cantilever-launch from one side
- ► Clear spans of up to 90 m (295')
- ► Optional internal or cantilevered sidewalk













#### Prefabricated Steel Bridges from the AIL Group offer many benefits over their site-built alternatives. They are

pre-engineered and manufactured to tightly-controlled tolerances and quality regimes. Their modules are easy to transport by road, ship or barge. Able to handle heavy industrial loads, they are available in various lane widths reaching spans of up to 73 m (240').

Choose from naturally-weathering, galvanized or painted finishes. With one of our economical abutment systems ready and waiting on your site, these are bridges **that can install in just one day.** 













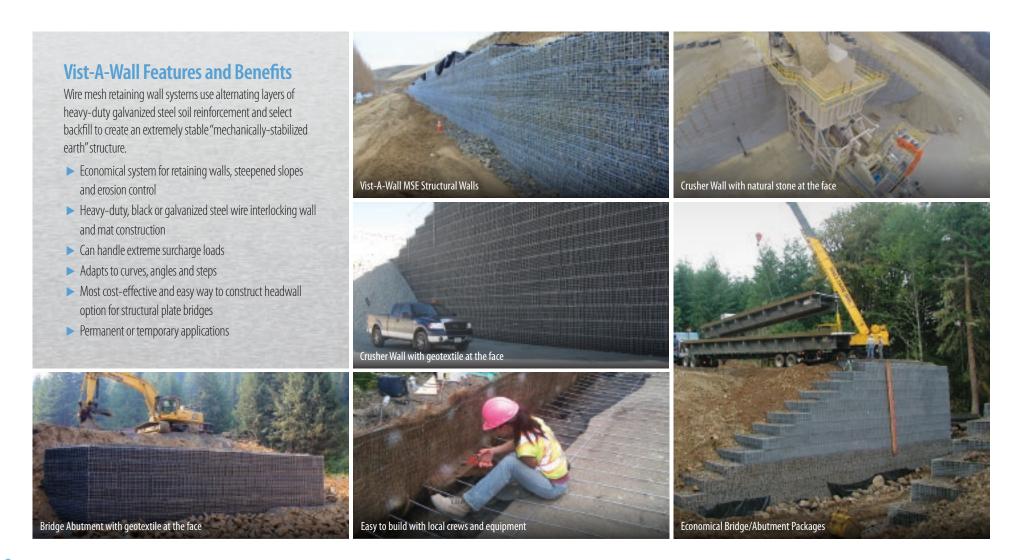
## Our Retaining Wall and Abutment Systems can help you save time and money on your next embankment project.

These historically-proven, cost-effective systems have minimal equipment and labour requirements and are easy to install.

They adapt well to curves, angles, and steps, with heights of over 30 m (100'). Our Vist-A-Wall MSE

Structural Walls (wire-faced with stone) or our Bolt-A-Bin cellular metal bin style walls are ideal for remote

Northern applications because they are fast, flexible and economical solutions.



#### Save time and money on your next project with the AIL Group of Companies.

We understand the unique requirements of Northern Infrastructure projects and the various stakeholders involved.

We specialize in value-engineering solutions for specific sites and, with locations and teams across Canada,

we are well poised to work with your project group and deliver the best solution for your budget and application.

Build in value; talk to one of our Northern Infrastructure Specialists.



#### **Bolt-A-Bin Features and Benefits**

Bolt-A-Bin is a cellular metal bin system that surrounds a compacted mass of granular material. The cells are formed from strong, corrugated metal components that can be quickly hand assembled on-site with no need for pile driving or concrete pouring.

- ➤ Strong, flexible and cost-effective
- Lightweight, easy to install and ideal for remote areas
- ► Accepts locally-available fill material
- ► Galvanized and Aluminized Type 2 steel construction
- ➤ Versatile size range of 1.2 m (4') to 8.5 m (28') in height, in 3 m (9'8") increments in length















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